

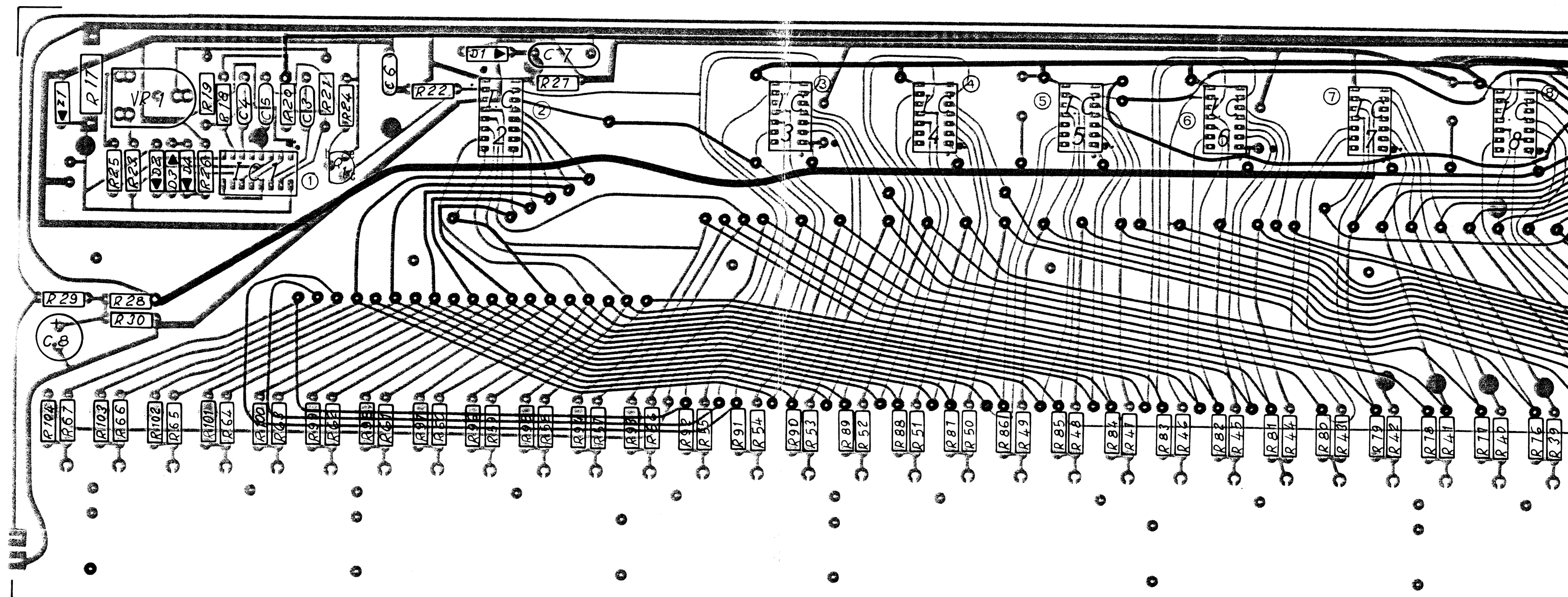


ELECTRONIC ORGAN

Mod. **Bravo**

*SCHEMATIC DIAGRAM
&
TECHNICAL INFORMATION*





Schem. Ref.	Circuit	Type	Part Code
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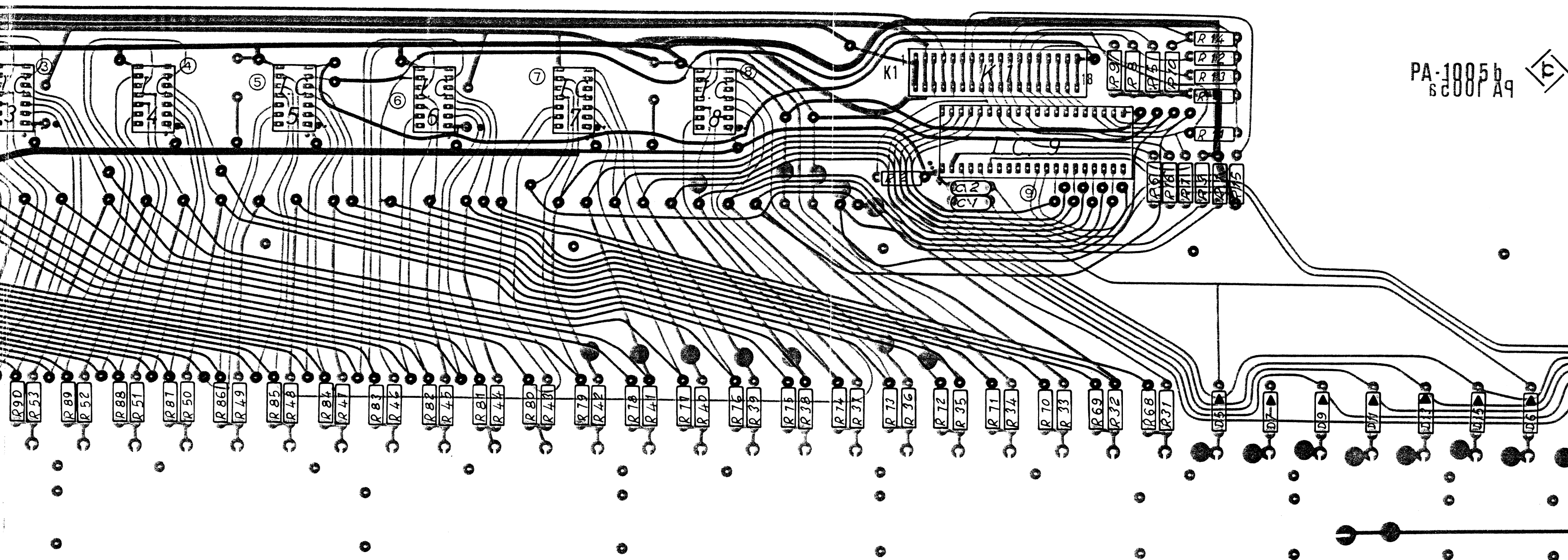
REGISTERS & RHYTHMS (SE 287)

PA 1006	Complete with components		5224/111291
I.C. 1	Rhythm Generator	F 542 S.G.S.	W/1123
I.C. 2-4-6	Quad 2-Input NAND Gate	HFB 4011 A S.G.S.	W/1150
I.C. 3-7	Operational Transconductance Ampl.	CA 3080 E R.C.A.	W/1227
I.C. 5	Wha-Wha	SN 72741-P Texas	W/1210
Q 11	Snare Drum Oscillator		
Q 2	Preamplifier		
Q 3	Cymbal Oscillator		
Q 4	Bass Drum Oscillator		
Q 5	Blocks Oscillator		
Q 6	Bongo Oscillator		
		BC 173-C	W/1426

Schem. Ref.	Circuit	Type	Part Code
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KEYSWITCHES & TONE GENERATOR (SE 287)

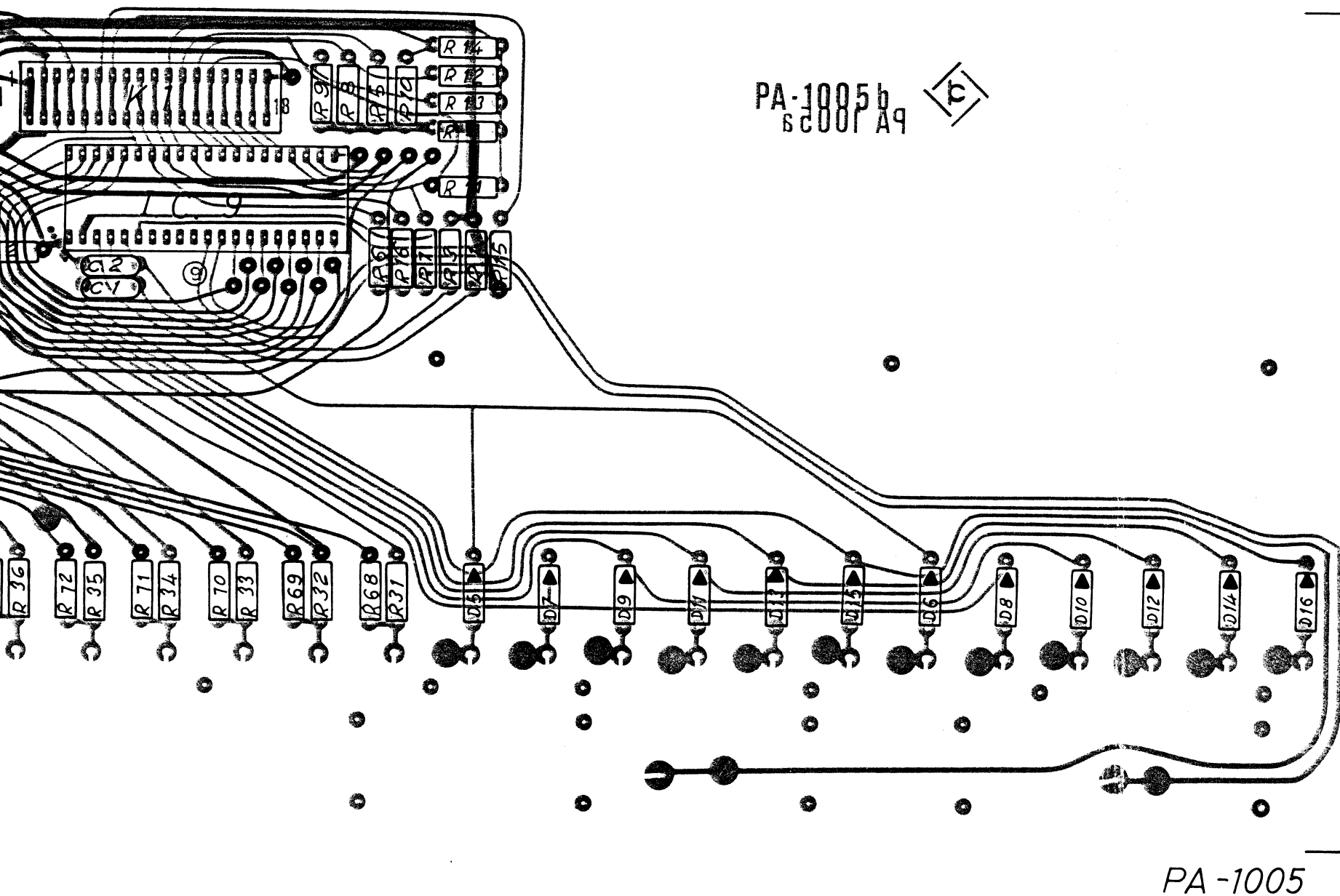
PA 1005	Complete with components		5223/1111291
I.C. 1	TTL - Double Monostable	SN 74221 Texas	W/1017
I.C. 2	Mos Presettable Tone Generator	TMS 3616 - NL Texas	W/1127
I.C. 3÷8	Frequency Dividers	TMS 3612 - ANC Texas	W/1165
I.C. 9	Chord Generator	AY-1-1317 A G.I.E.	W/1122
Q 1	Buffer	BC 173-C	W/1426
D1÷D4	Diodes	D 525-A Texas	B/1001
Z 1	Zener Diode 5,1V - 1 w.	1N 4733	B/1408



PA-1005b
62007 A9

Schem. Ref.	Circuit	Type	Part Code
KEYSWITCHES & TONE GENERATOR (SE 287)			
PA 1005	Complete with components		5223/1111291
I.C. 1	TTL - Double Monostable	SN 74221 Texas	W/1017
I.C. 2	Mos Presettable Tone Generator	TMS 3616 - NL Texas	W/1127
I.C. 3÷8	Frequency Dividers	TMS 3612 - ANC Texas	W/1165
I.C. 9	Chord Generator	AY-1-1317 A G.I.E.	W/1122
Q 1	Buffer	BC 173-C	W/1426
D1÷D4	Diodes	D 525-A Texas	B/1001
Z 1	Zener Diode 5,1V - 1 w.	1N 4733	B/1408

Schem. Ref.	Circuit	Type	Part Code
POWER SUPPLY & AMPLIFIER (SE 287)			
PA 1007	Complete with components		5225/1111291
PA 1007/1	Complete with components		5226/1111291
I.C. 1	Series Stabilizer	µA 7815-UC Fairchild	W/1224
I.C. 2	10 W. Audio amplifier	TDA 2006-H S.G.S.	W/1238
D 1÷D 6	Rectifier Diodes	1N 4002 I.R.	B/1100



chem. Ref.	Circuit	Type	Part Code
POWER SUPPLY & AMPLIFIER (SE 287)			
A 1007	Complete with components Europe Version	5225/1111291
A 1007/1	Complete with components America Version	5226/1111291
C. 1	Series Stabilizer	μ A 7815-UC Fairchild	W/1224
C. 2	10 W. Audio amplifier	TDA 2006-H S.G.S.	W/1238
1÷D 6	Rectifier Diodes	1N 4002 I.R.	B/1100

IMPORTANT : IN ANY CORRESPONDENCE CONCERNING THIS INSTRUMENT ALWAYS INCLUDE MODEL AND SERIAL NUMBERS!

PARTS ORDERING – When ordering parts be sure to include the following information:

1. Model and serial Number of instrument.
2. Part Code.
3. A description of the Part.
4. Specify how you want the part shipped.

FARFISA COMPANY - WHOSE POLICY IS CONSTANTLY DIRECTED TO IMPROVEMENTS AND NEW DEVELOPMENTS - RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, PRICES, MODELS AND TO DISCONTINUE

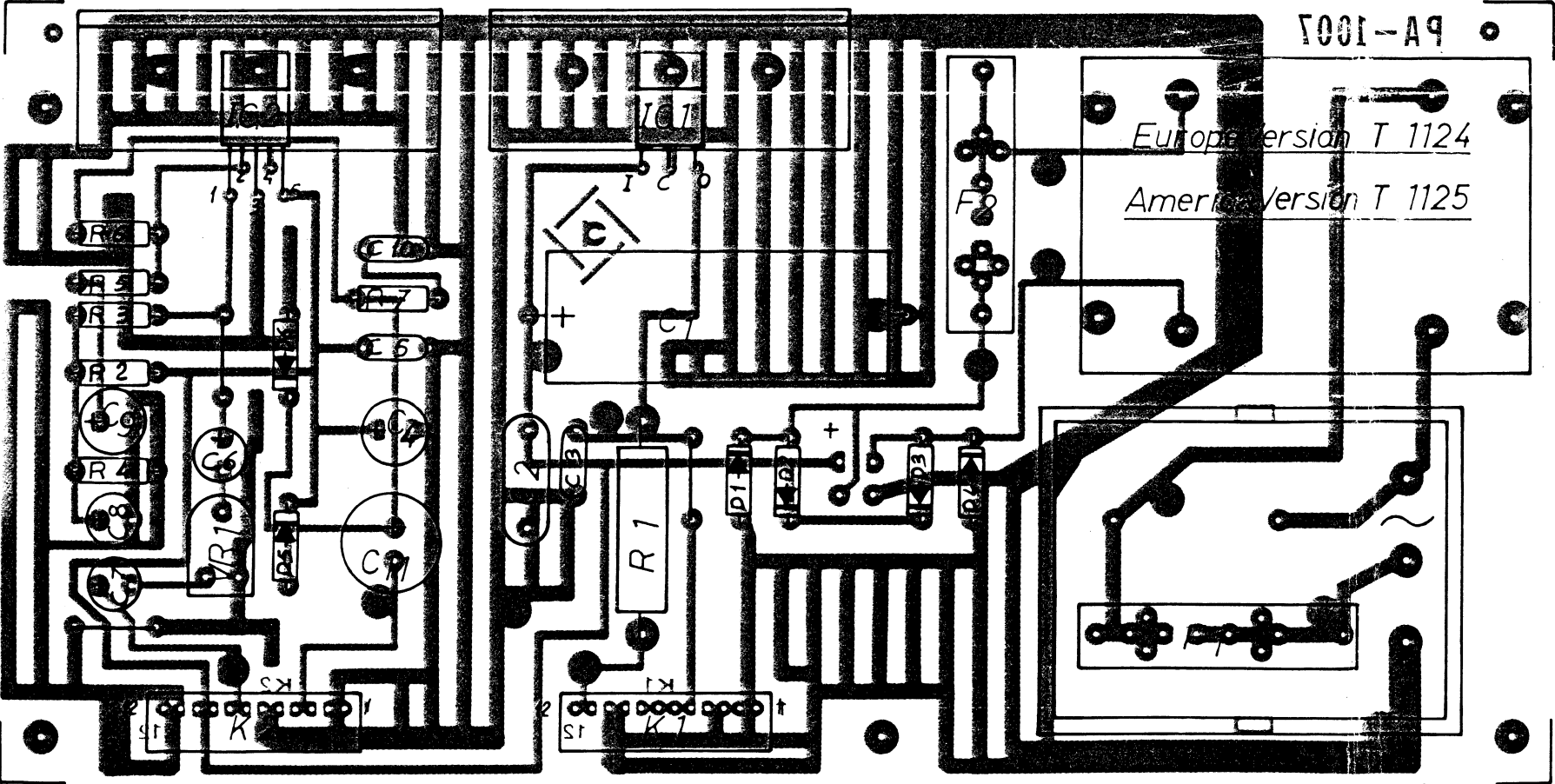
Schem. Ref.	Circuit	Type	Part Code
POWER SUPPLY & AMPLIFIER (SE 287)			
PA 1007	Complete with components Europe Version	5225/1111291
PA 1007/1	Complete with components America Version	5226/1111291
I.C. 1	Series Stabilizer	µA 7815-UC Fairchild	W/1224
I.C. 2	10 W. Audio amplifier	TDA 2006-H S.G.S.	W/1238
D 1÷D 6	Rectifier Diodes	1N 4002 I.R.	B/1100

IMPORTANT : IN ANY CORRESPONDENCE CONCERNING THIS INSTRUMENT ALWAYS INCLUDE MODEL AND SERIAL NUMBERS!

PARTS ORDERING – When ordering parts be sure to include the following information:

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PA-1007

Part Code

24/111291

/1123

/1150

/1227

/1210

/1426

/1413

/1426

/1413

/1426

/1426

/1413

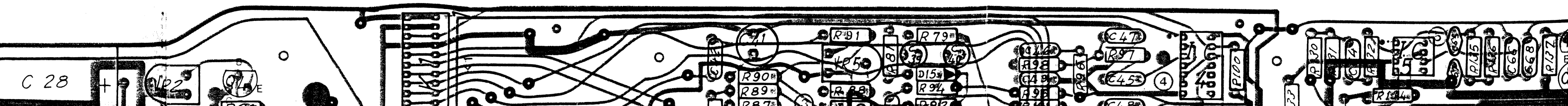
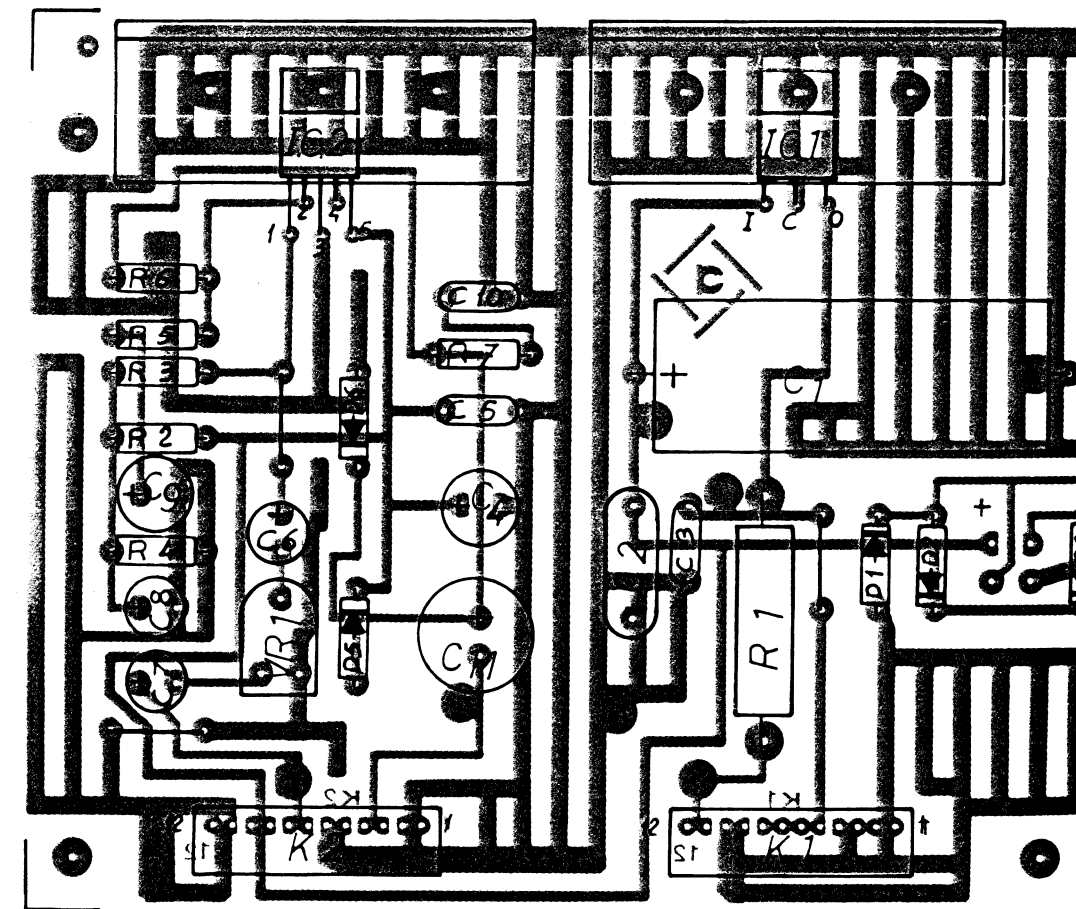
/1001

1608

1604

Schem. Ref.	Circuit	Type	Part Code
KEYSWITCHES & TONE GENERATOR (SE 287)			
PA 1005	Complete with components		5223/1111291
I.C. 1	TTL - Double Monostable	SN 74221 Texas	W/1017
I.C. 2	Mos Presettable Tone Generator	TMS 3616 - NL Texas	W/1127
I.C. 3÷8	Frequency Dividers	TMS 3612 - ANC Texas	W/1165
I.C. 9	Chord Generator	AY-1-1317 A G.I.E.	W/1122
Q 1	Buffer	BC 173-C	W/1426
D1÷D4	Diodes	D 525-A Texas	B/1001
Z 1	Zener Diode 5,1V - 1 w.	1N 4733	B/1408

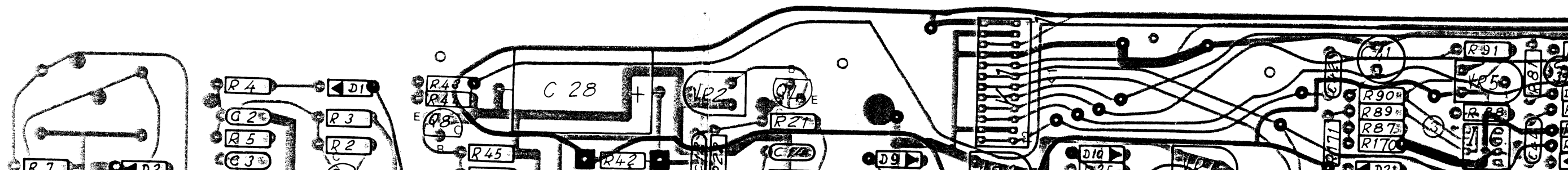
Schem. Ref.	Circuit	Type
POWER SUPPLY & AMPLIFIER (SE 287)		
PA 1007	Complete with components Europe Version	
PA 1007/1	Complete with components America Version	
I.C. 1	Series Stabilizer	µA 7815-UC Fairchild
I.C. 2	10 W. Audio amplifier	TDA 2006-H S.G.S.
D 1÷D 6	Rectifier Diodes	1N 4002 I.R.



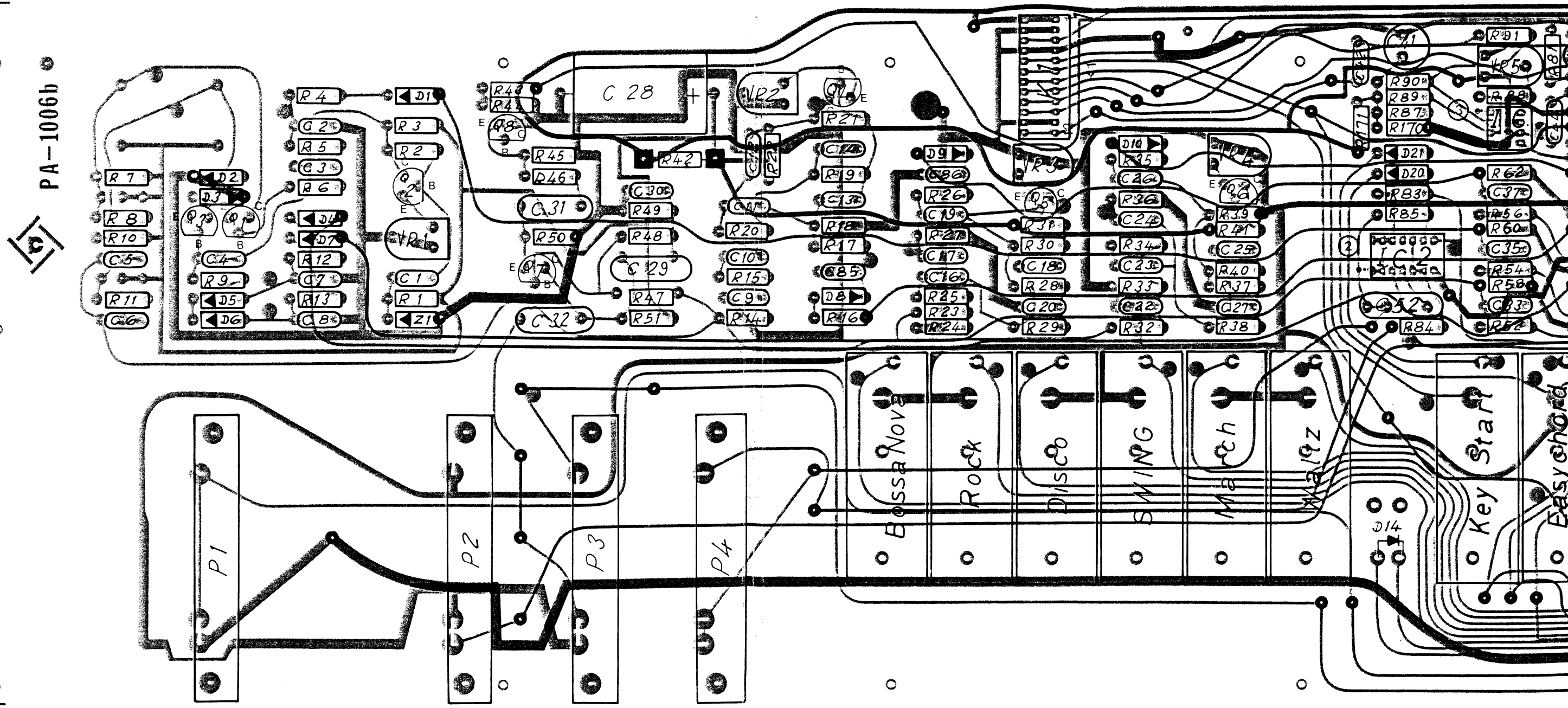
Schem. Ref.	Circuit	Type	Part Code
REGISTERS & RHYTHMS (SE 287)			
PA 1006	Complete with components		5224/111291
I.C. 1	Rhythm Generator	F 542 S.G.S.	W/1123
I.C. 2-4-6	Quad 2-Input NAND Gate	HFB 4011 A S.G.S.	W/1150
I.C. 3-7	Operational Transconductance Ampl.	CA 3080 E R.C.A.	W/1227
I.C. 5	Wha-Wha	SN 72741-P Texas	W/1210
Q 11	Snare Drum Oscillator	BC 173-C	W/1426
Q 2	Preamplifier		
Q 3	Cymbal Oscillator		
Q 4	Bass Drum Oscillator		
Q 5	Blocks Oscillator		
Q 6	Bongo Oscillator	BC 209-B red dot	W/1413
Q 7	Rhythm Preamplifier		
Q 8	Switch		
Q 9	Led Driver		
Q 10	Modulator		
Q 11	Canto Key-Down Detection	BC 173-C	W/1426
Q 12	Wha-Wha switch		
Q 13	Final Preamp. mixer		
Q 14	Vibrato Buffer		
Q 15	Vibrato		
Q 16	Filter Mixer	BC 209-B red dot	W/1413
D 1÷D 13 } D 15÷D 23 }	Diodes	D 525-A Texas	W/1001
D 14	Red Led	LT 203	B/1608
Z 1	Noise Generator	B/1604 Farfisa	B/1604

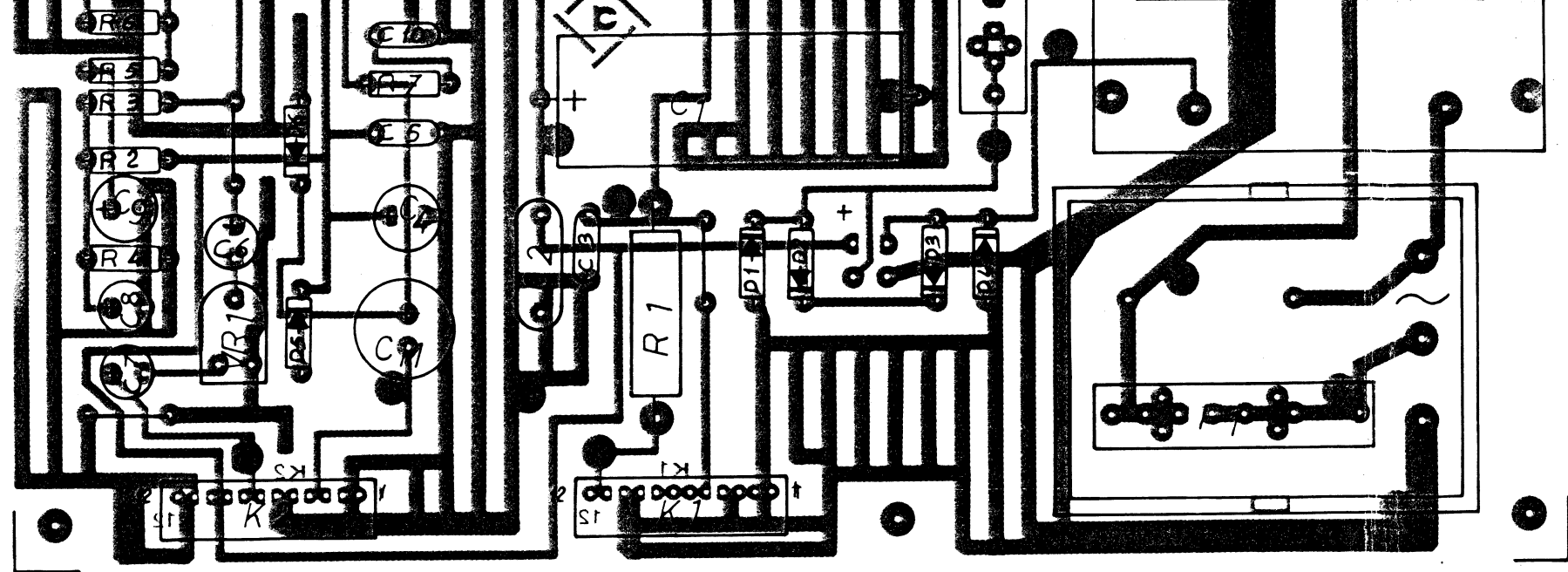
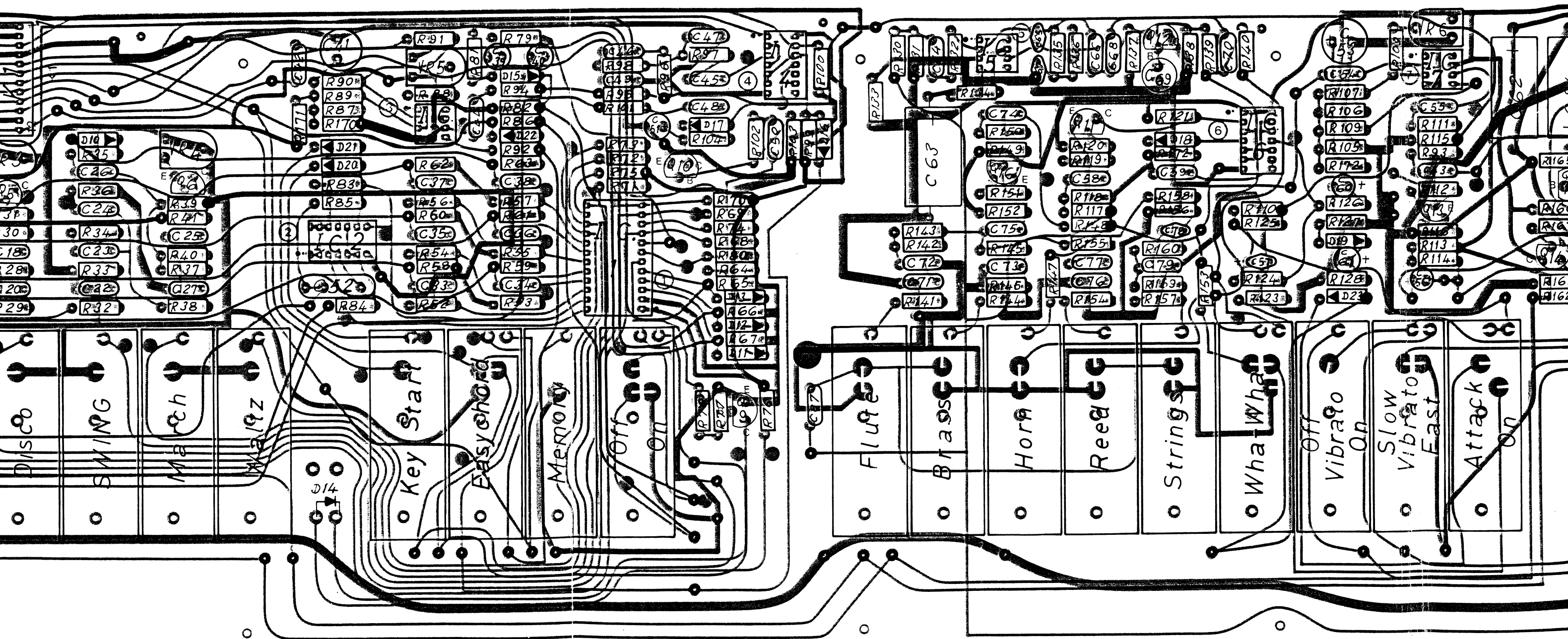
Schem. Ref.	Circuit	Type	Part Code
KEYSWITCHES & TONE GENERATOR (SE 287)			
PA 1005	Complete with components		5223/1111291
I.C. 1	TTL - Double Monostable	SN 74221 Texas	W/1017
I.C. 2	Mos Presettable Tone Generator	TMS 3616 - NL Texas	W/1127
I.C. 3÷8	Frequency Dividers	TMS 3612 - ANC Texas	W/1165
I.C. 9	Chord Generator	AY-1-1317 A G.I.E.	W/1122
Q 1	Buffer	BC 173-C	W/1426
D1÷D4	Diodes	D 525-A Texas	B/1001
Z 1	Zener Diode 5,1V - 1w.	1N 4733	B/1408

PA-1006b

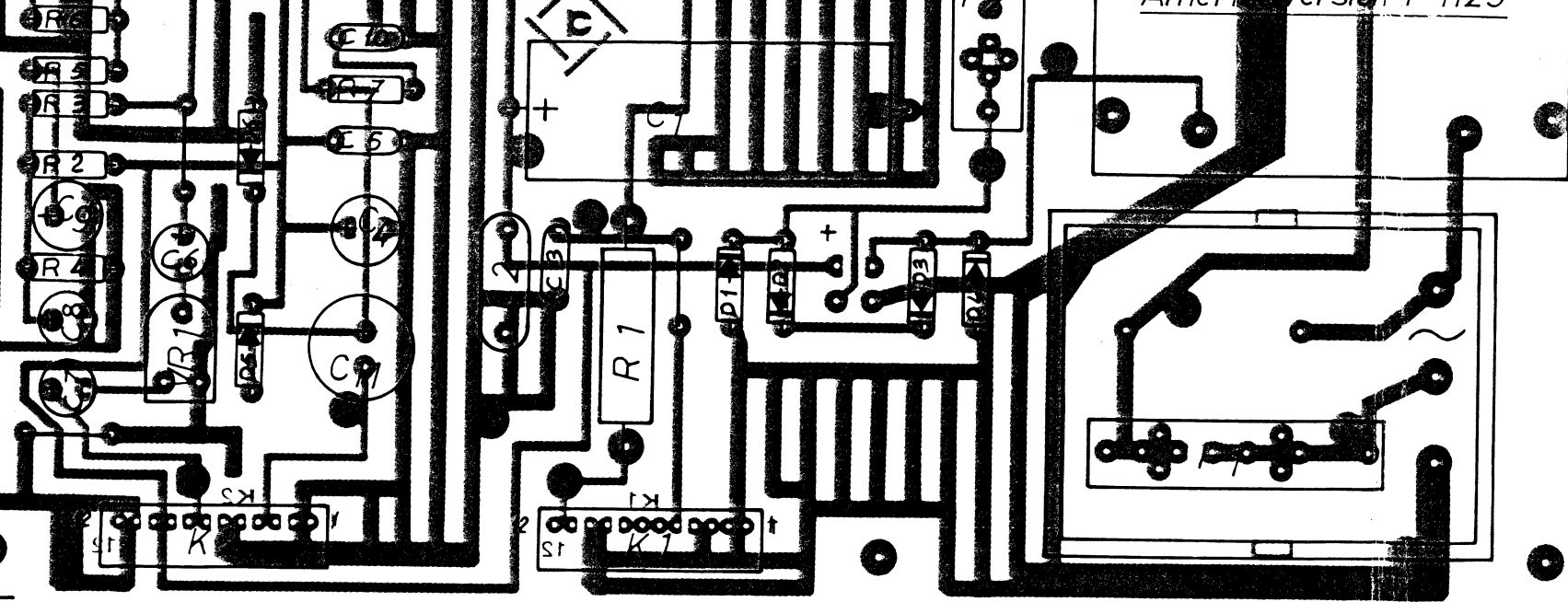


Q 14	Vibrato Buffer	BC 173-C	W/1426
Q 15	Vibrato	BC 173-C	W/1426
Q 16	Filter Mixer	BC 209-B red dot	W/1413
D 1+D 13 } D 15+D 23 }	Diodes	D 525-A Texas	W/1001
D 14	Red Led	LT 203	B/1608
Z 1	Noise Generator	B/1604 Farfisa	B/1604

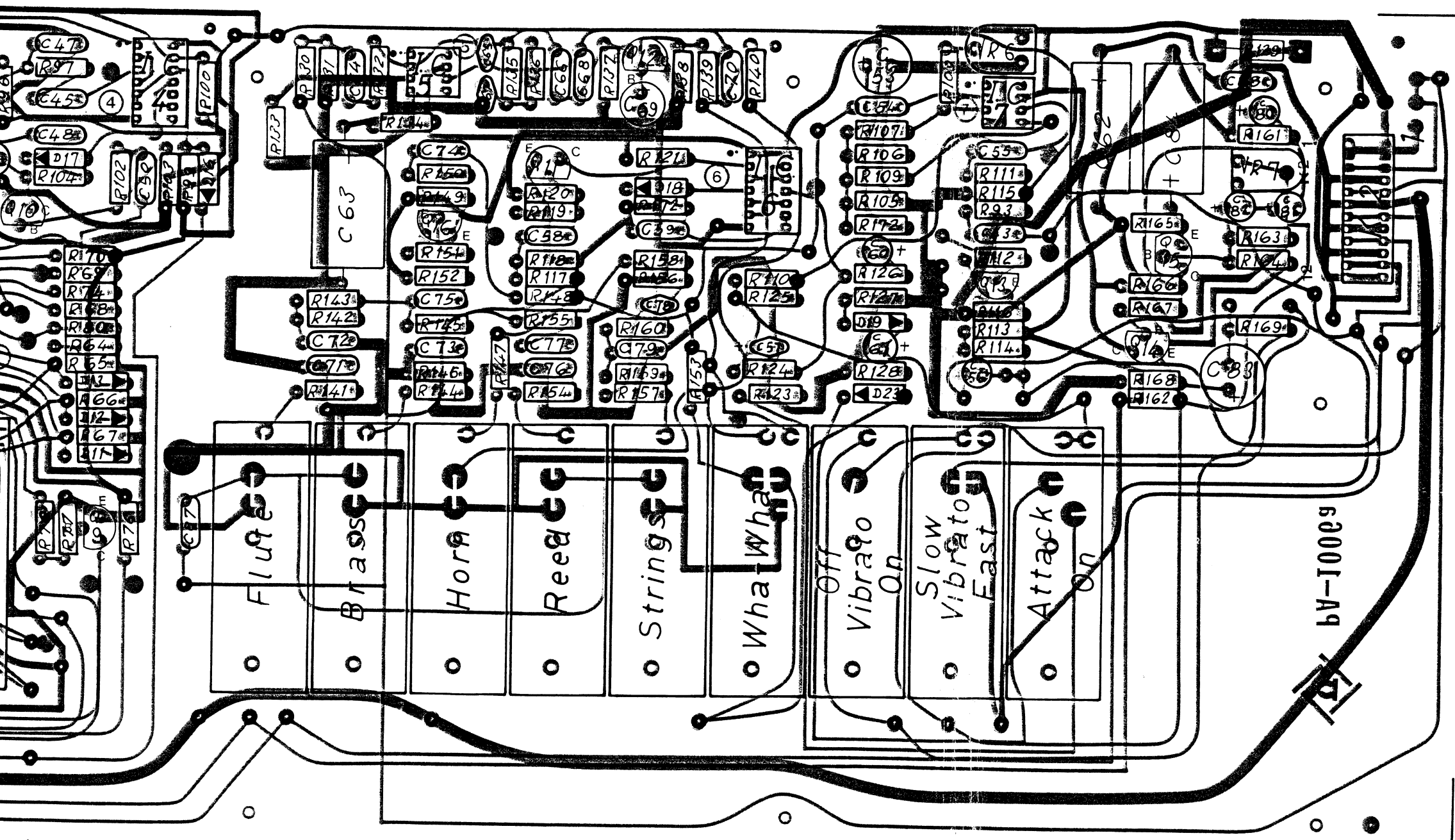




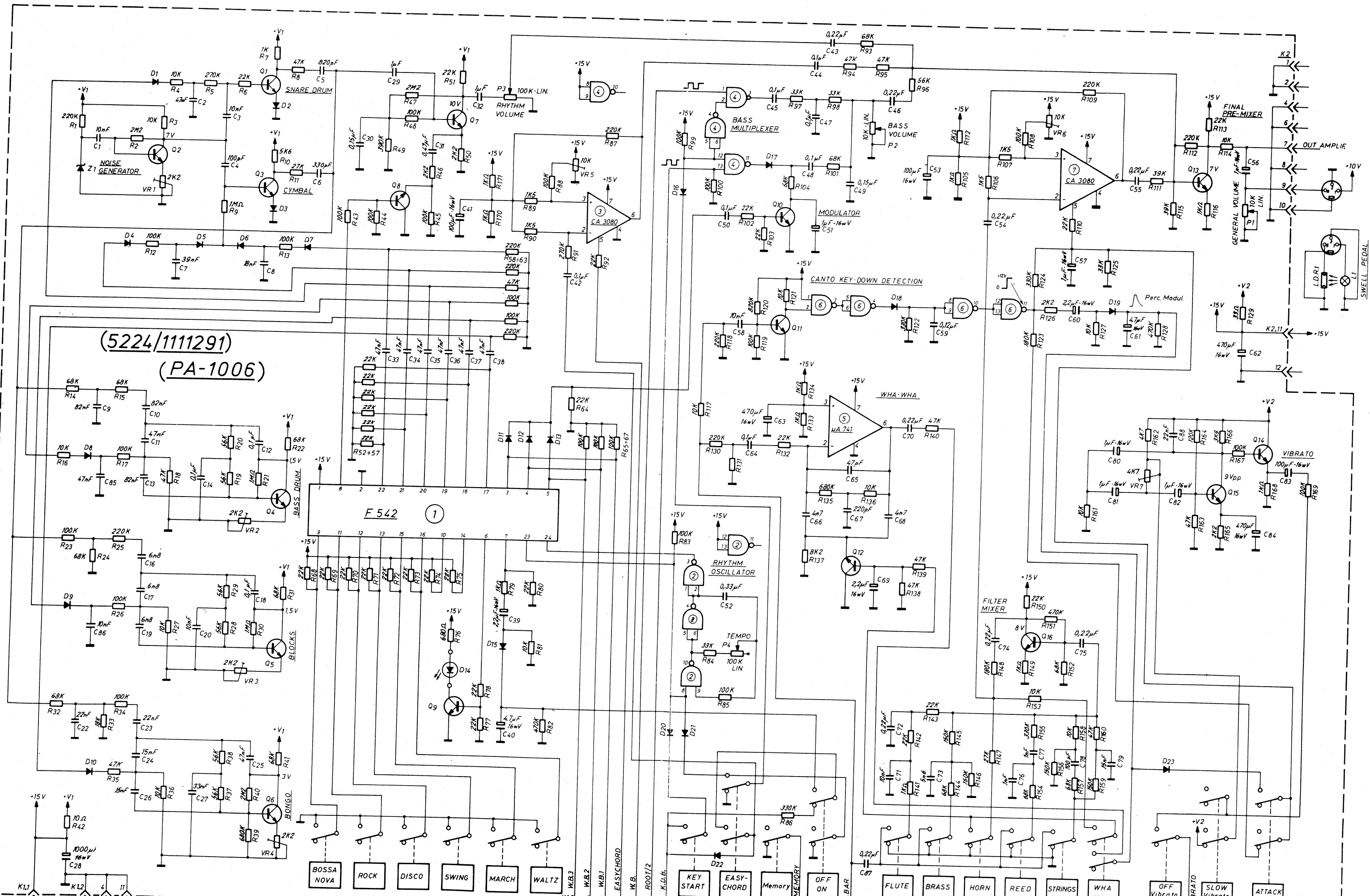
PA-1007

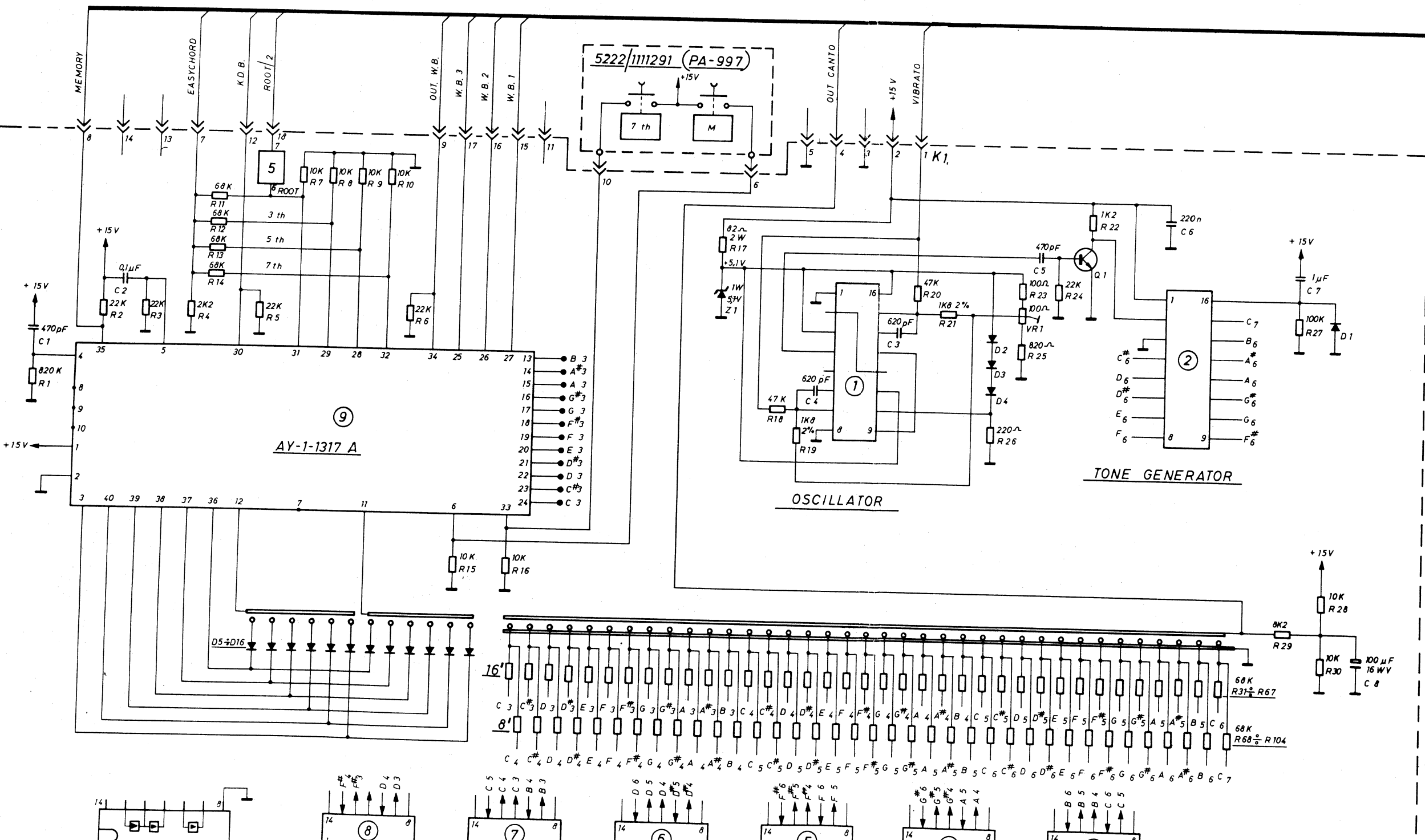
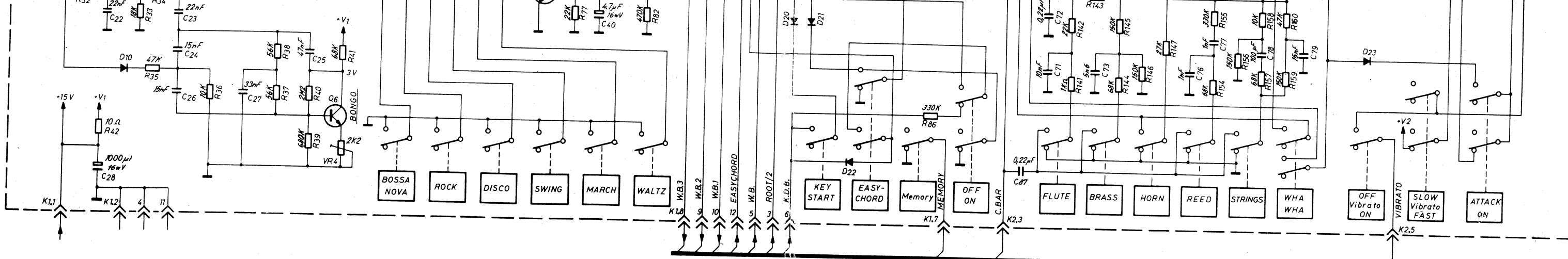


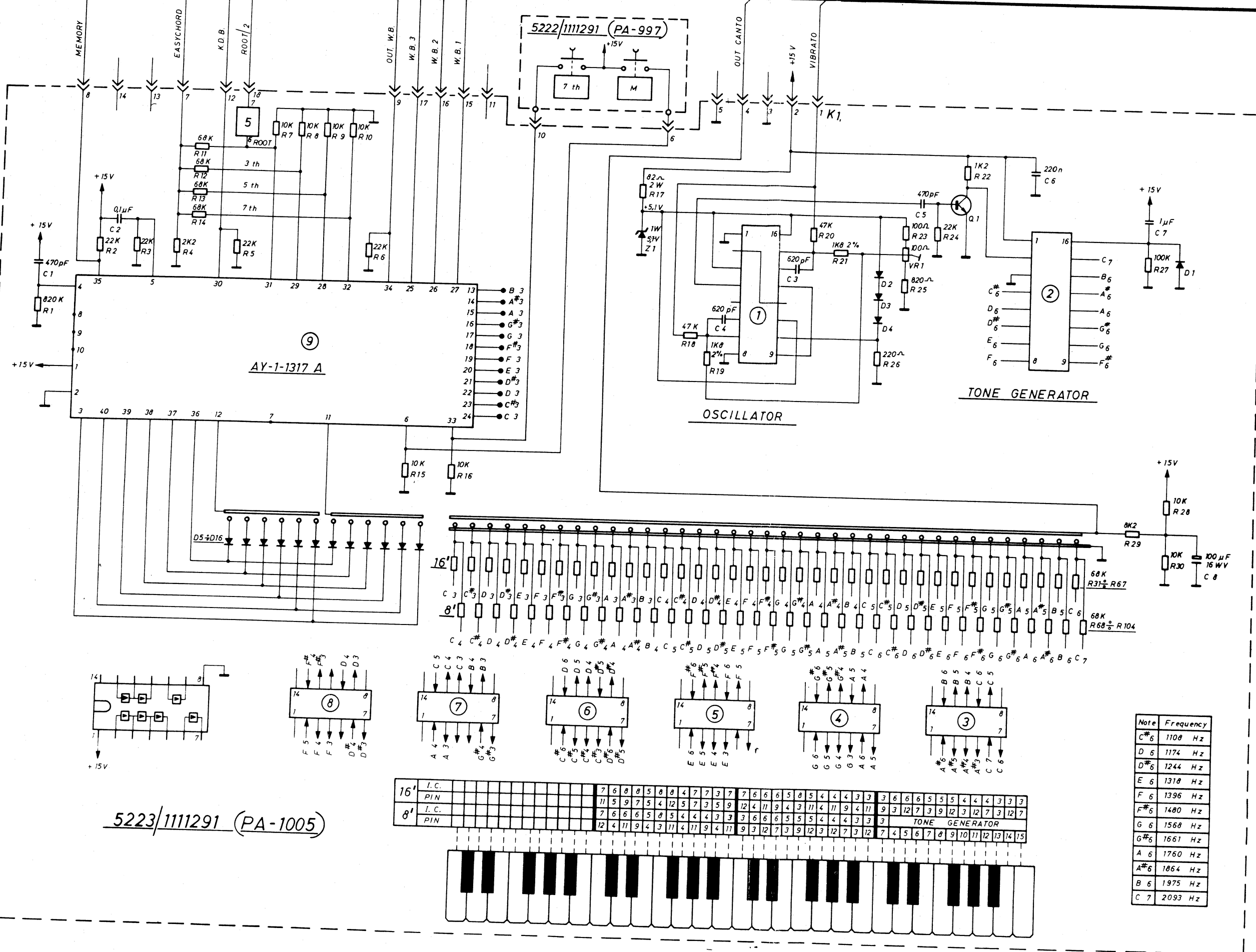
PA-1007



PA-1006







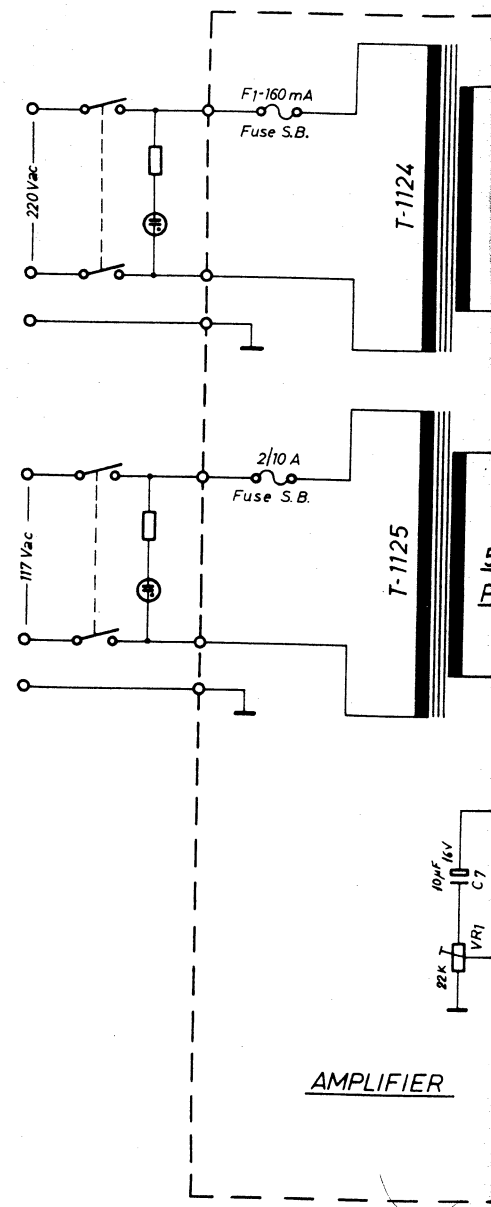
Note	Frequency
C#6	1100 Hz
D6	1174 Hz
D#6	1244 Hz
E6	1310 Hz
F6	1396 Hz
F#6	1480 Hz
G6	1568 Hz
G#6	1661 Hz
A6	1760 Hz
A#6	1864 Hz
B6	1975 Hz
C7	2093 Hz

DRAWN BY <i>[Signature]</i>	Date 12-7-79	MODEL BRAVO	Serial N°	Serial N°	Serial N°
CHECKED BY <i>[Signature]</i>	Date 12-8-79	CODE SE-287	Revision	Revision	Revision
APPROVED BY <i>[Signature]</i>	Date 12-7-79	DWG 1 OF 1	Date	Date	Date

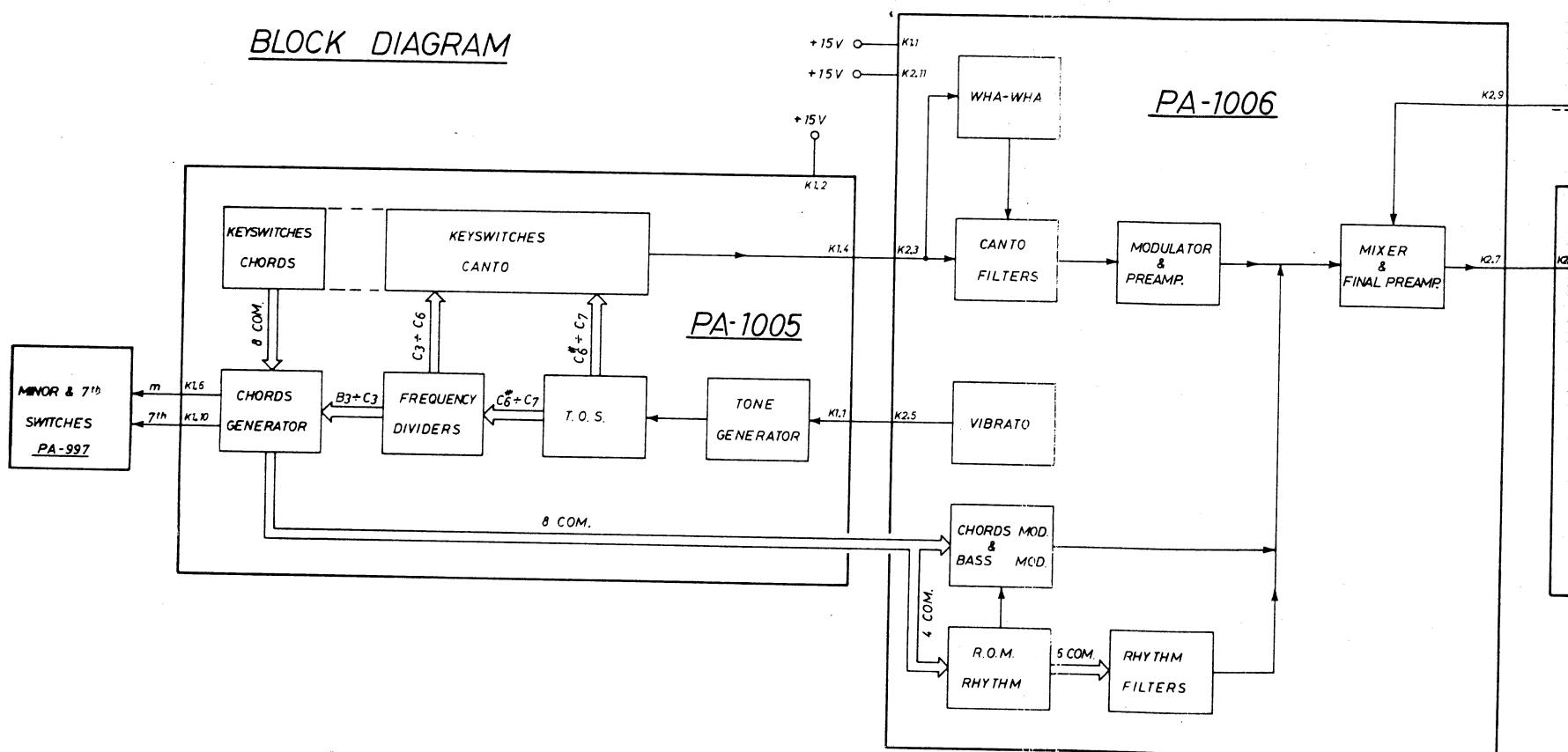
LEGENDA

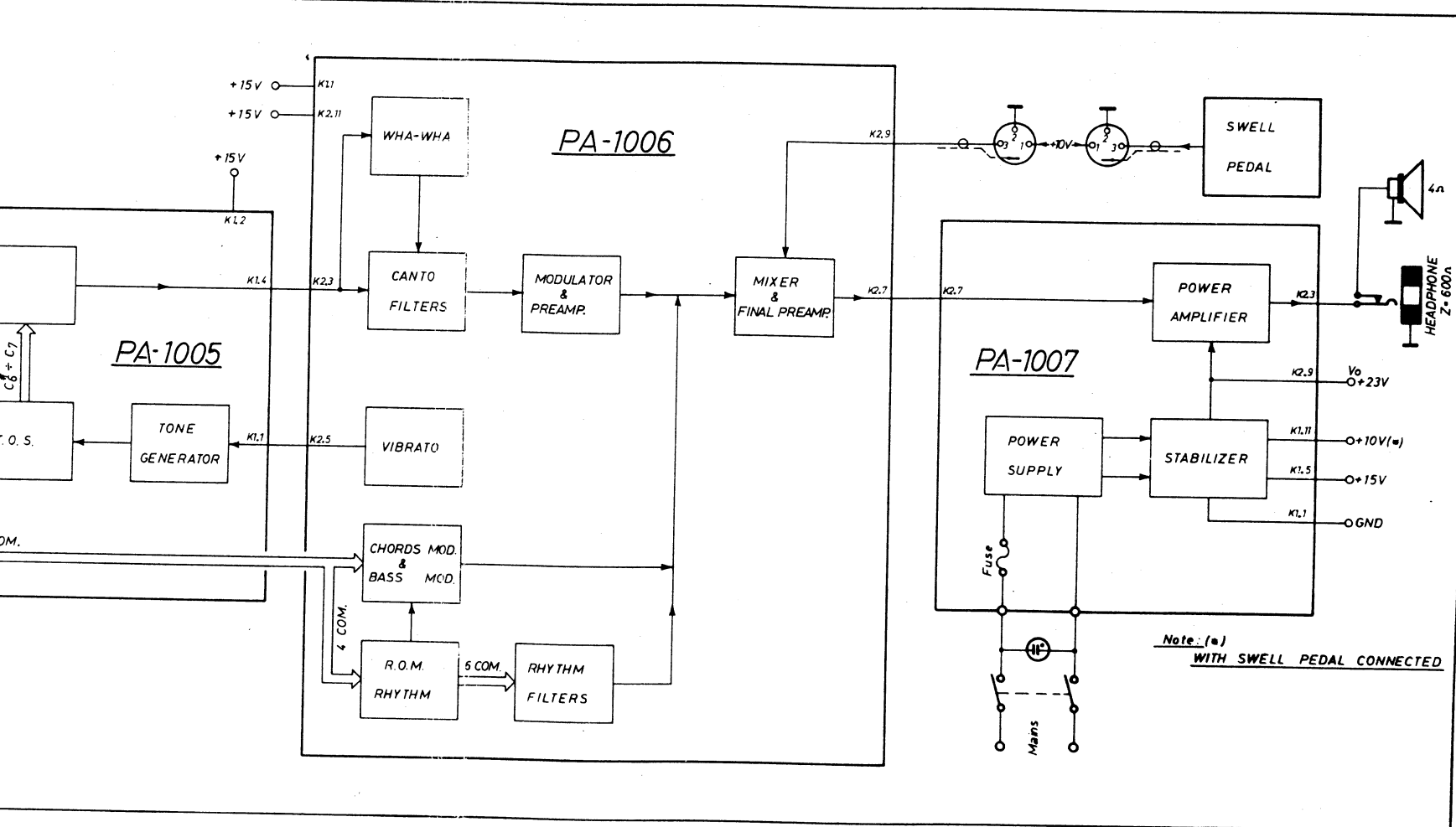
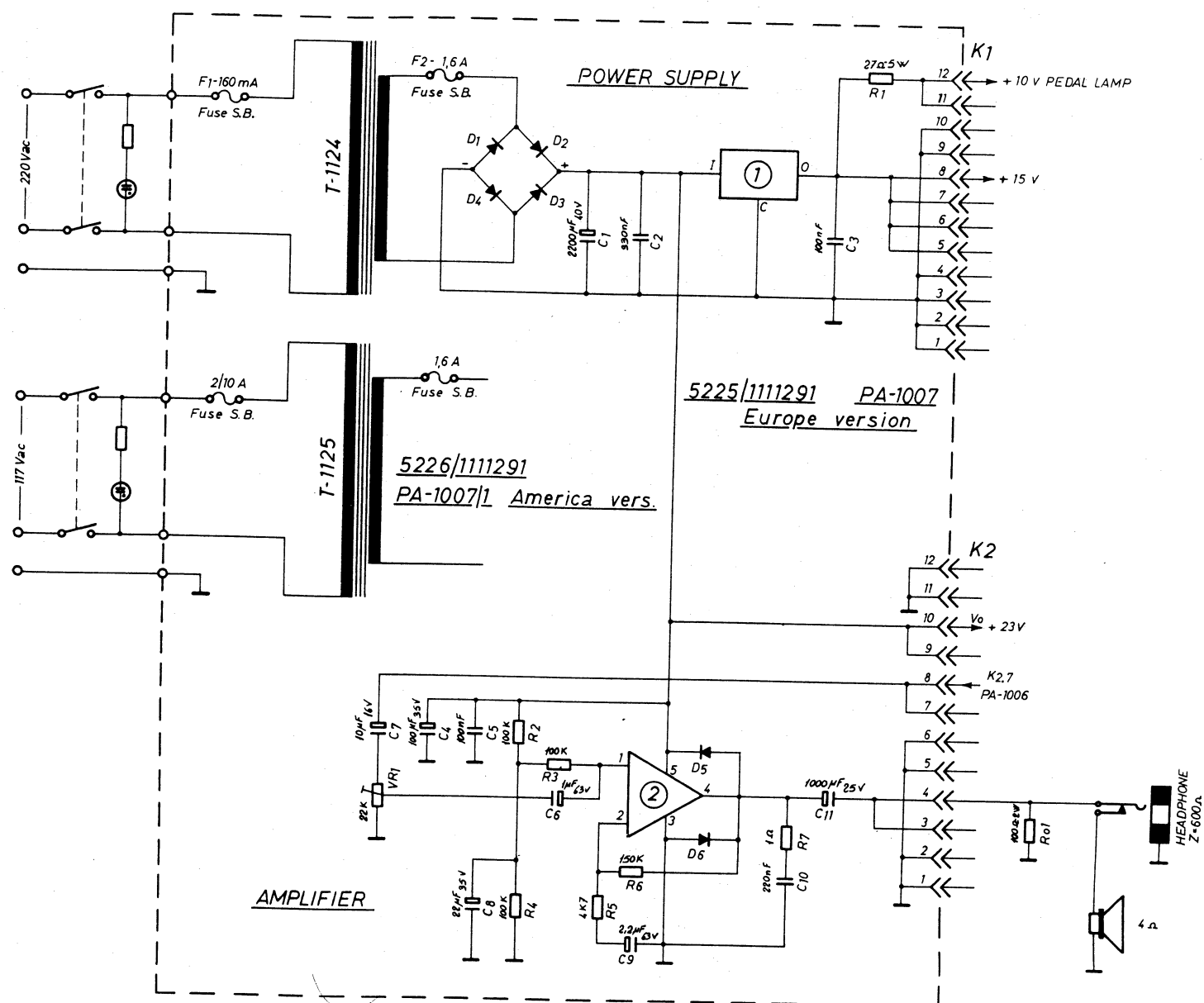
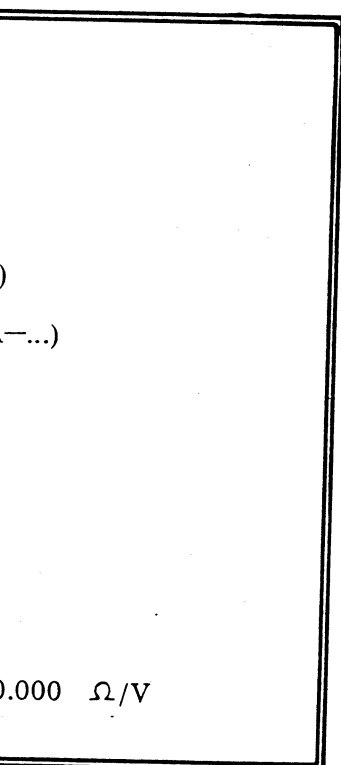
- 1 K2.1 FEMALE CONNECTOR SYMBOL (es. K2. 1)
- ← PLUG IN CONNECTOR SYMBOL
- → OUTPUT SIGNAL (TO DWG...) or (TO PA—...)
- ← INPUT SIGNAL (FROM DWG...) or (FROM PA—...)
- TEST POINT (TP...)
- CONNECTING POINT (ON p.c.b.)

All resistors 1/4 unless otherwise indicated
 All tabswitches shown in OFF position
 All keyswitches shown in OFF position
 See part list for component part numbers
 All D.C. voltages measured to ground with a voltmeter 20.000 Ω/V

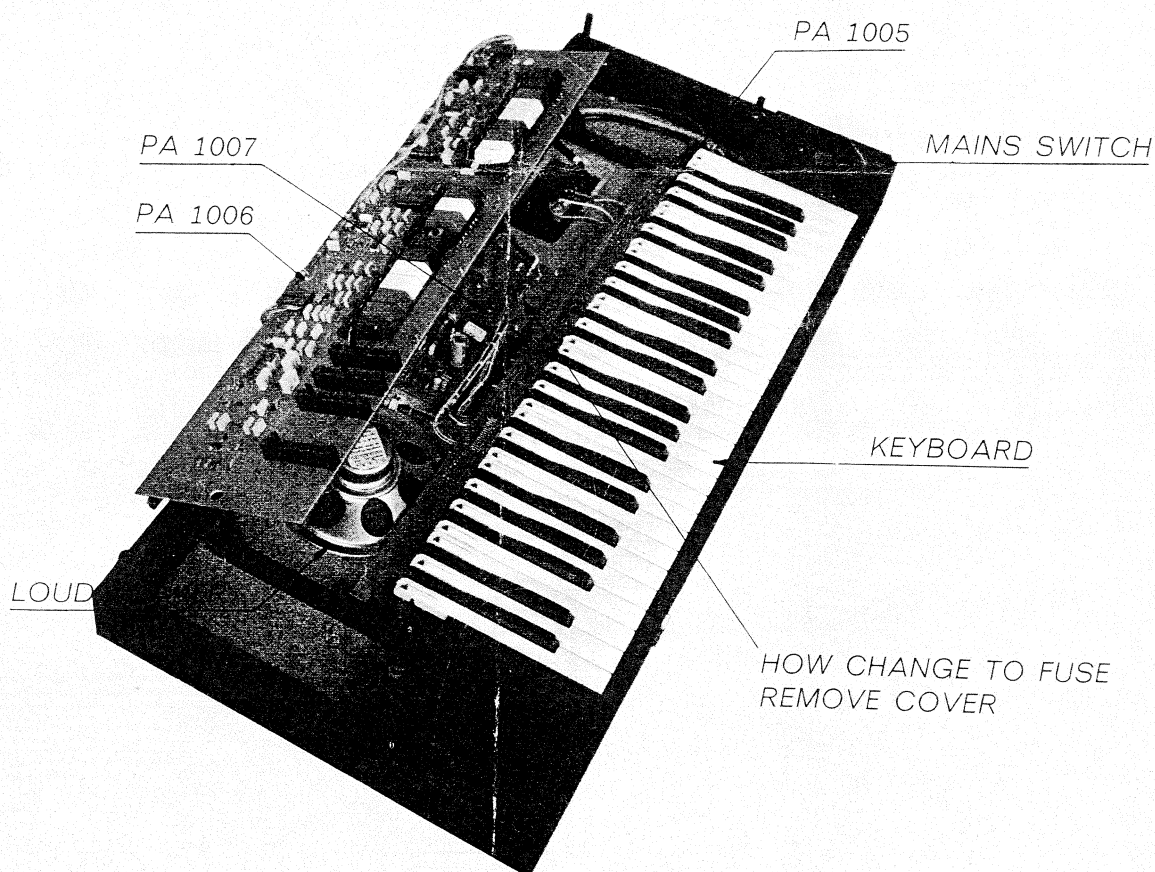
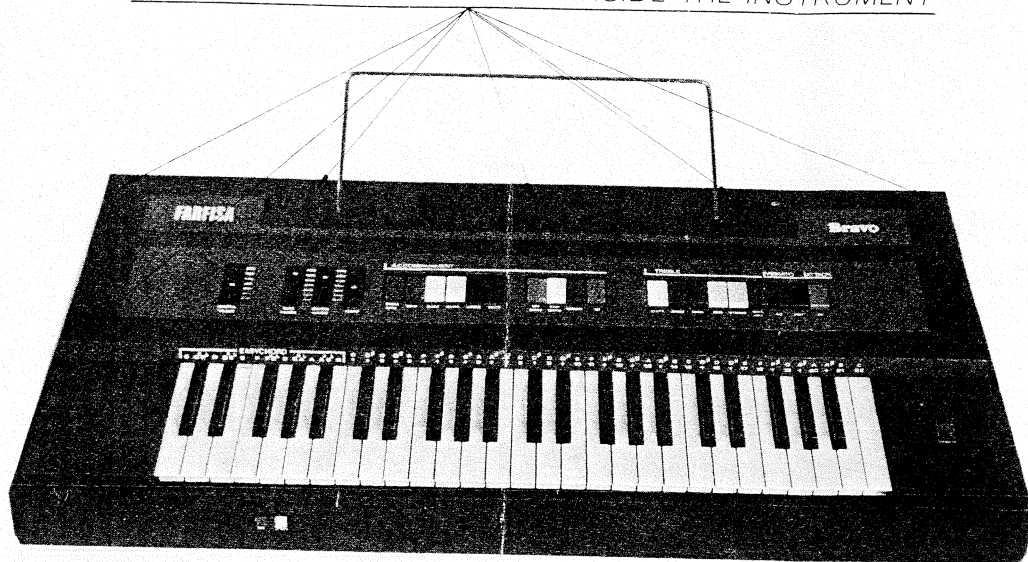


BLOCK DIAGRAM





REMOVE SCREWS TO REACH INSIDE THE INSTRUMENT



Farfisa is a subsidiary
of Lear Siegler, Inc.



FARFISA S.p.A. / Strumenti Musicali / C.P. 204 / 60100 Ancona